

Title (en)

A turbine engine airfoil with convective cooling, the corresponding core and the method for manufacturing this airfoil

Title (de)

Konvektive Kühlung einer Schaufel für ein Turbinentreibwerk, entsprechender verlorene Kern und entsprechendes Herstellungsverfahren

Title (fr)

Refroidissement par convection d'un profil d'aube de moteur à turbine, modèle de cire perdue et procédé de fabrication correspondant

Publication

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Application

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Priority

US 20155008 A 20080829

Abstract (en)

[origin: EP2159375A2] A turbine engine airfoil (34) includes an airfoil structure having an exterior surface (57) that provides a leading edge (38). A first cooling passage (56) includes radially spaced legs (78, 80) extending laterally from one side of the leading edge toward another side of the leading edge and interconnecting to form a loop (76) with one another. A trench (62) extends radially in the exterior surface (57) along the leading edge (38). The trench (62) intersects one (80) of the first and second legs (78,80) to provide at least one first cooling hole (64a,64b) in the trench (62). A core for manufacturing an airfoil and a method of manufacturing this airfoil are also disclosed.

IPC 8 full level

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Cited by

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